Form E 1

Experiment No. 203 Section Wed. 6-8
(Day of week)

# Kansas State College

Department Applied Mechanics

Laboratory Strength

Squad
Observers
Leader
Recorder

Title

Date Performed
(The remainder to be filled in by instructor)

Date Received

Returned for Correction

Accepted

Rejected

Name

# Rules and Suggestions for Laboratory Work

## A. GENERAL INSTRUCTIONS

1. Whenever possible, the class will be divided into squads. The squad consists of a leader, a recorder and the observers. It is required that the position of each member in the squad, leader, recorder and observer, shall be rotated from week to week.
2. The leader is the squad foreman. He checks out all necessary apparatus, sees that it is properly arranged and indicates the time for making the observations. At the close of the test, he sees that all apparatus is returned to its proper place and reports any injury to apparatus or machinery.
3. The recorder makes a record of the maker, number and name of each instrument, makes all sketches, and records all observations directly on the data sheet. He supplies each man and the instructor with a carbon copy at the close of the test.

Form E4 paper, or such paper as may be specified, must be used for all data taken and for all sketches made in the laboratory.

## B. REPORTS

1. Hand in all reports in Form E1 covers. (Letter cover with Reinhardt lettering and use India Ink.)
2. For handwriting use Form E2 paper, and for typewriter use Form E3 and double spacing.
3. Fasten the pages into the cover with string.
4. Where diagrams are small, they should be inserted in the body of the report adjacent to the appropriate discussion. In case of large size diagrams use full size sheets.
5. On the first sheet of the report give the number and the title of the experiment. This sheet is used by the instructor to indicate corrections to be made in the report. These corrections must not be erased.
6. On the second sheet, write the experiment number in the center of the top line, and give the title of the experiment on the third line.
7. Begin the report proper on the line following the title and arrange it in the following order:
   - (a) Object. State the object definitely and include all points brought out by the experiment, e. g., "The object of this experiment was to determine the unit stress at the yield point, the ultimate strength, the percentage of elongation in each inches, the percentage of reduction in area and Poisson's ratio of steel."
   - (b) Theory. Brief analysis of the theory involved.
   - (c) Diagrams. Show the arrangement of the apparatus.
   - (d) List of Apparatus. Include make, rating and number of instrument. (List of apparatus may be omitted if included on special form data sheets.)
   - (e) Method of Procedure. Give a brief outline of the successive steps used in carrying out the experiment. Use the third person, past tense.
   - (f) Data and Results. Arrange these, when possible, in tables.
   - (g) Sample Calculations. State the formula, and show numerical substitutions.
   - (h) Curves. Follow instructions given below regarding curves.
   - (i) Interpretation of Results. Interpret the results of the experiment. Results of each experiment should be compared with standard values and comparisons noted.

(8) Note. The headings mentioned above may be used in writing up the report.

## C. CURVES

1. All curves must be plotted on Form E5 paper, unless blue prints are to be made, when FormE6 is used. The axes, plotted points, all lettering, figures, title and curves must be in India Ink.
2. Locate the co-ordinate axes one inch from the left and bottom border lines of the sheet. Use this inch margin for indicating the names and numerical values assigned to the axes.
3. Unless otherwise specified plot the independent variable as the abscissa.
4. Indicate the plotted points of a curve by a symbol such as a circle or a triangle. Before inking in a curve a very light smooth penciled curve should be drawn which represents the most probable values.
5. Give each sheet a title, and mark each curve so that the curve sheet is practically self-explanatory without reference to the report.

## D. ACCEPTANCE OF REPORTS

1. Reports are due at the beginning of the next laboratory period.
2. Each report will be graded according to its worth when first received. Reports returned without proper correction may have grade reduced. Ten per cent will be subtracted for each week or fraction thereof, that original reports, or returned reports are overdue.
3. Make all corrections on the original report when possible. Rewrite only such portions as indicated, in which case the original should be returned with the corrected copy.
4. A student absent from laboratory work more than one-fifth of the time due to protracted illness, quarantine, or being a participant in intercollegiate activities receives the grade of U. and all such work missed must be made up at the first opportunity given. If absent but one-fifth of the time or less due to the above causes, the work need not be made up. A student absent more than one-fifth of the time due to all other causes including other excusable absences receives the grade of F.

## E. FINAL EXAMINATIONS

1. A final-examination will be given at the end of the semester which will count not more than one-third nor less than one-fourth in determining the final grade.

October 23, 1935

Prof. Paul Weigel
Chairman Committee on Sigma Tau Pyramid
College

Dear Professor Weigel:

Below is an estimate of cost for the Sigma Tau pyramid:

| | |
|---|---|
| Stone work, in place | $145.60 |
| Plaques | 15.00 |
| Rail section | 2.50 |
| Sand for base | 1.80 |
| Cement for base | 7.20 |
| Contingencies 5% | 8.60 |
| TOTAL | $180.70 |

The Sigma Tau fraternity has on hand $190.00 for the construction of this pyramid.

Yours very truly,

L. V. White
Sigma Tau Committee Member

May 24, 1935

Professor Paul Weigel
Department of Architecture
Kansas State College
Manhattan, Kansas

Dear Professor Weigel:

We, the Sigma Tau Committee, are enclosing two prints of the Sigma Tau Pyramid, and two prints showing its location, one of each for your files, and one of each to send to President Farrell, as you requested. One print shows the design, dimensions, and specifications of the pyramid, and the other print shows the location, both of which have been accepted by the faculty committee.

Although sufficient funds are available, it is so late in the present school year that we do not think it advisable to undertake construction at this time. However, it is our wish that you, as chairman of the faculty committee, present these plans to President Farrell for final approval at this time. If these plans meet with President Farrell's approval, it is the present plan of the fraternity to carry this project through to completion during the coming school year.

We understand that arrangement must be made to cover all costs that may be incurred before the construction is started, and that once started it must be done with dispatch.

Yours very truly,

Hugh S. Maxwell
W. C. Hulburt

Sigma Tau Pyramid Committee

# THE CONCRETE PRODUCTS CO., INC.

H. H. ALLISON, Jr., General Manager
FACTORY—PARK ST. AND M. P. R. R.
PHONE 2330
SALINA, KANSAS

MANUFACTURERS OF
CONCRETE STAVE SILOS
ARCHITECTURAL BUILDING STONE
GARDEN FURNITURE
CEMETERY LOT CURBS
GRAVE CRADLES

CALIFORNIA STUCCO
PORTLAND CEMENT
WHITE CEMENT
SILICA SAND

May 25, 1935.

Hugh S. Maxwell,
1617 Leavenworth,
Manhattan, Kansas.

Dear Sir:-

In my travels the week I called on you, I left my memorandum book, in which I carried your letter and drawings on a party desk in his office, and as a result I did not have the drawing with me so I could get the price on the rail and placque while in the City.

If this proposition has not fallen thru, would suggest you write to Tim's Aluminum Foundry, 1404 McGee Street, Kansas City Mo. for the prices on this work. You can get these prices direct and will save a day or two time.

Yours very truly,

THE CONCRETE PRODUCTS CO., Inc.

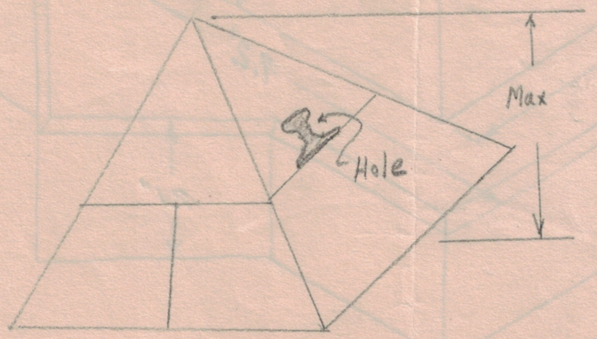
By. HH Allison Jr

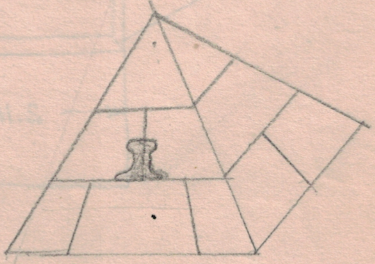
*"If It's CONCRETE, We Make It"*

to.

Professor L. V. White

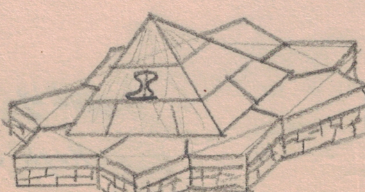
# Sigma Tau Pyramid





$50.00

Oliver Jensen's Rough Estimate

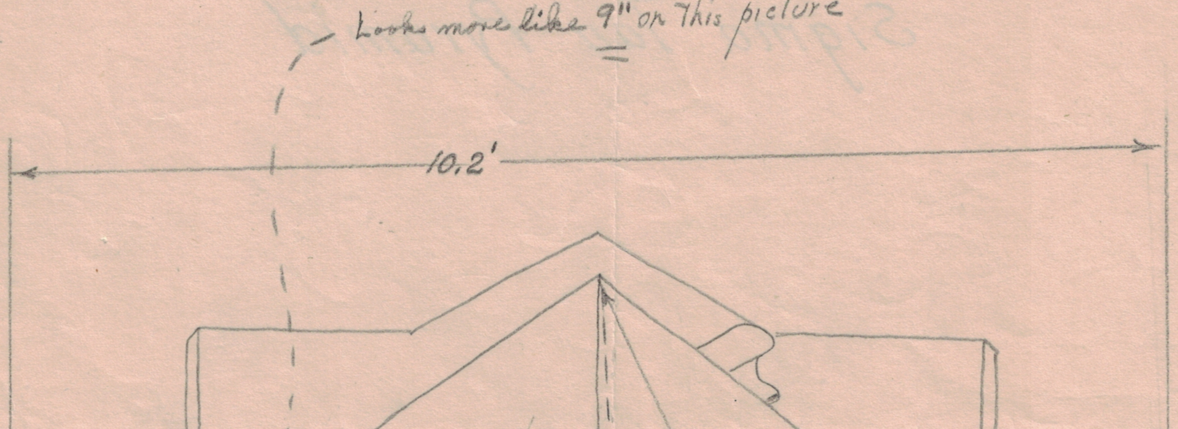


Approx. $150. with
frat labor on
foundation.

Recommends 4 yds. foundation
with reinforcing rods

Does not include cost or
installation of rail or plaques.

Dimensions are approximate.

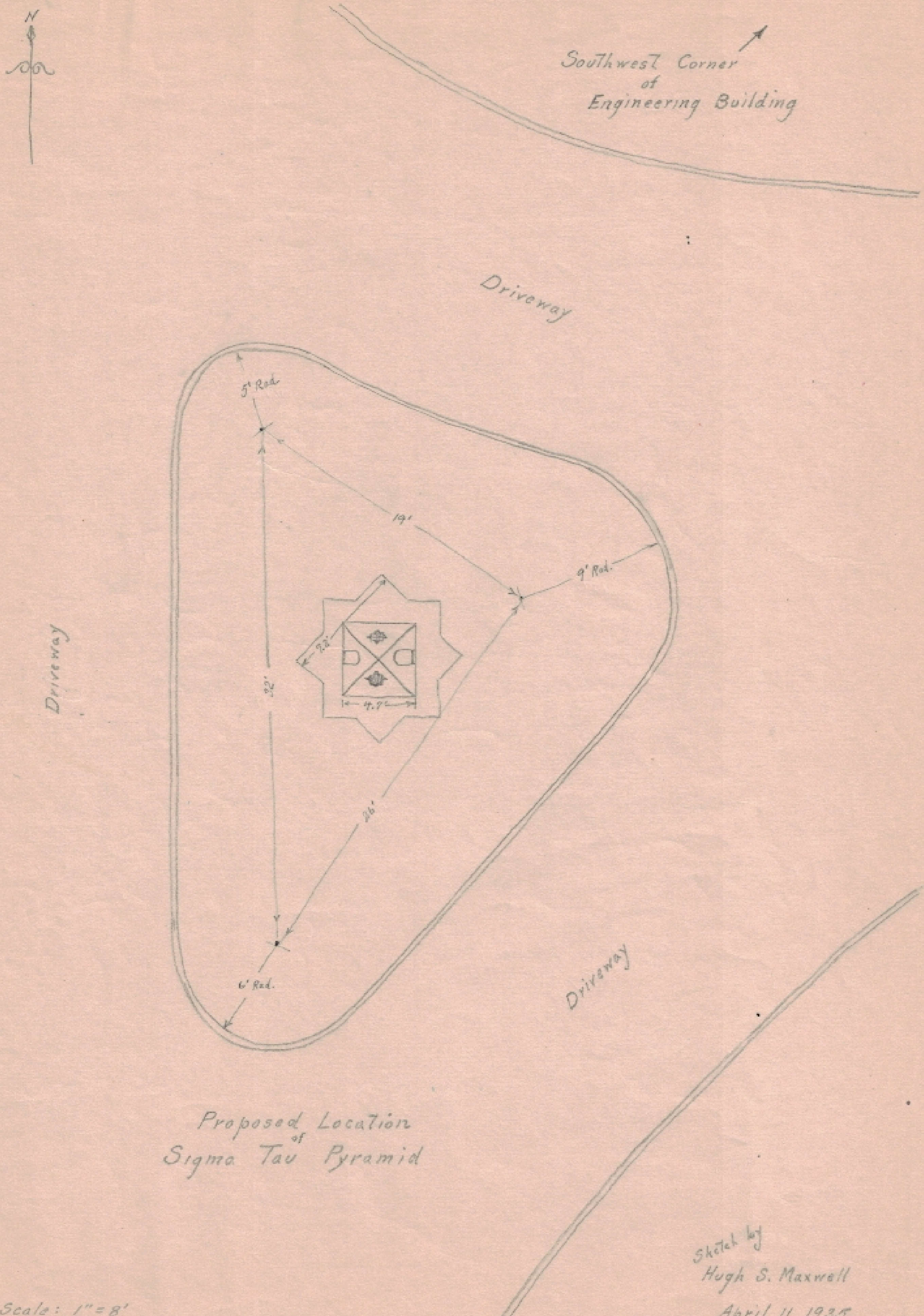


Looks more like 9" on this picture

Sigma Tau Pyramid

Sketch by
Hugh S. Maxwell
April 11, 1935

Copy

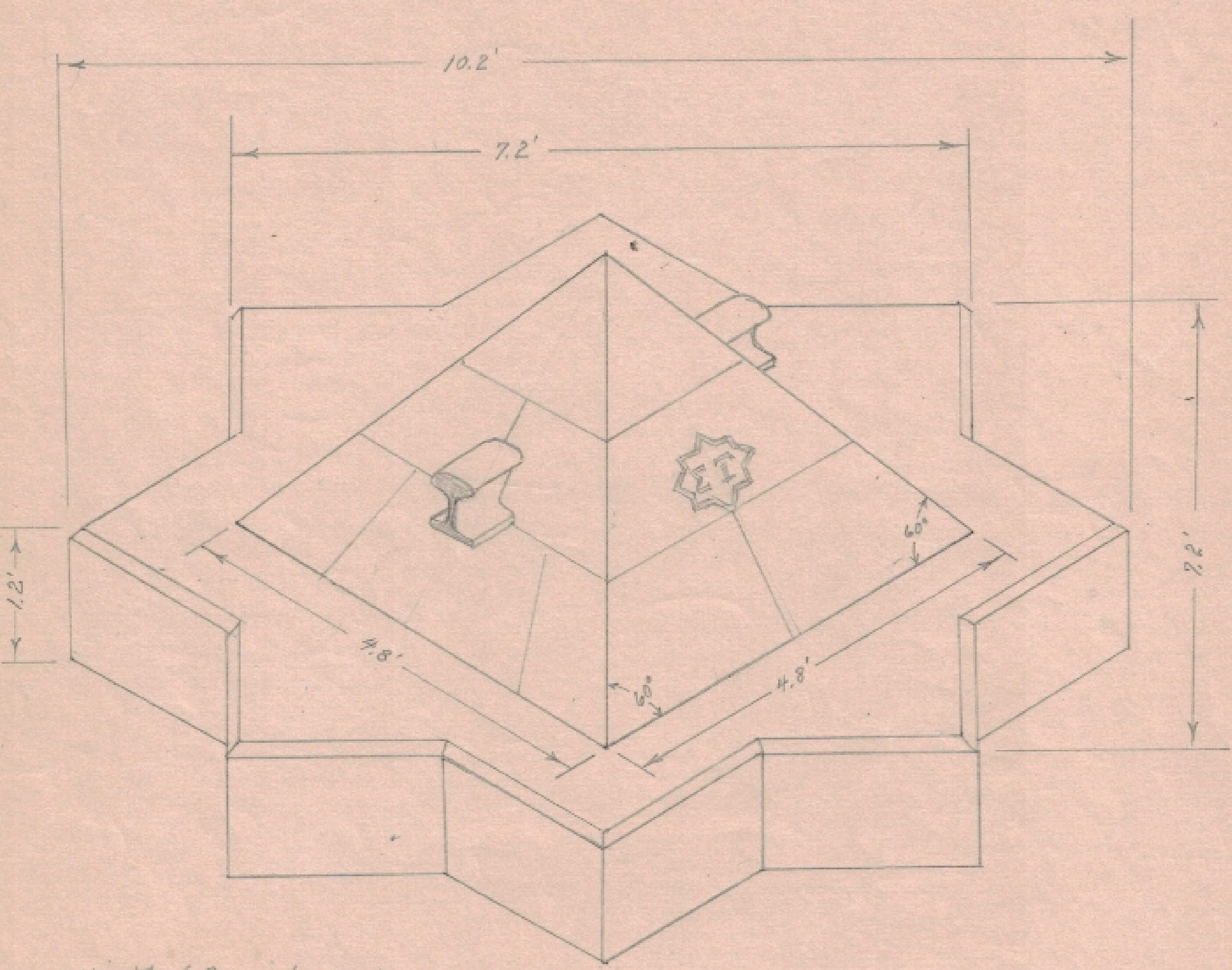


Proposed Location
of
Sigma Tau Pyramid

Scale: 1" = 8'

Sketch by
Hugh S. Maxwell
April 11, 1935

Copy



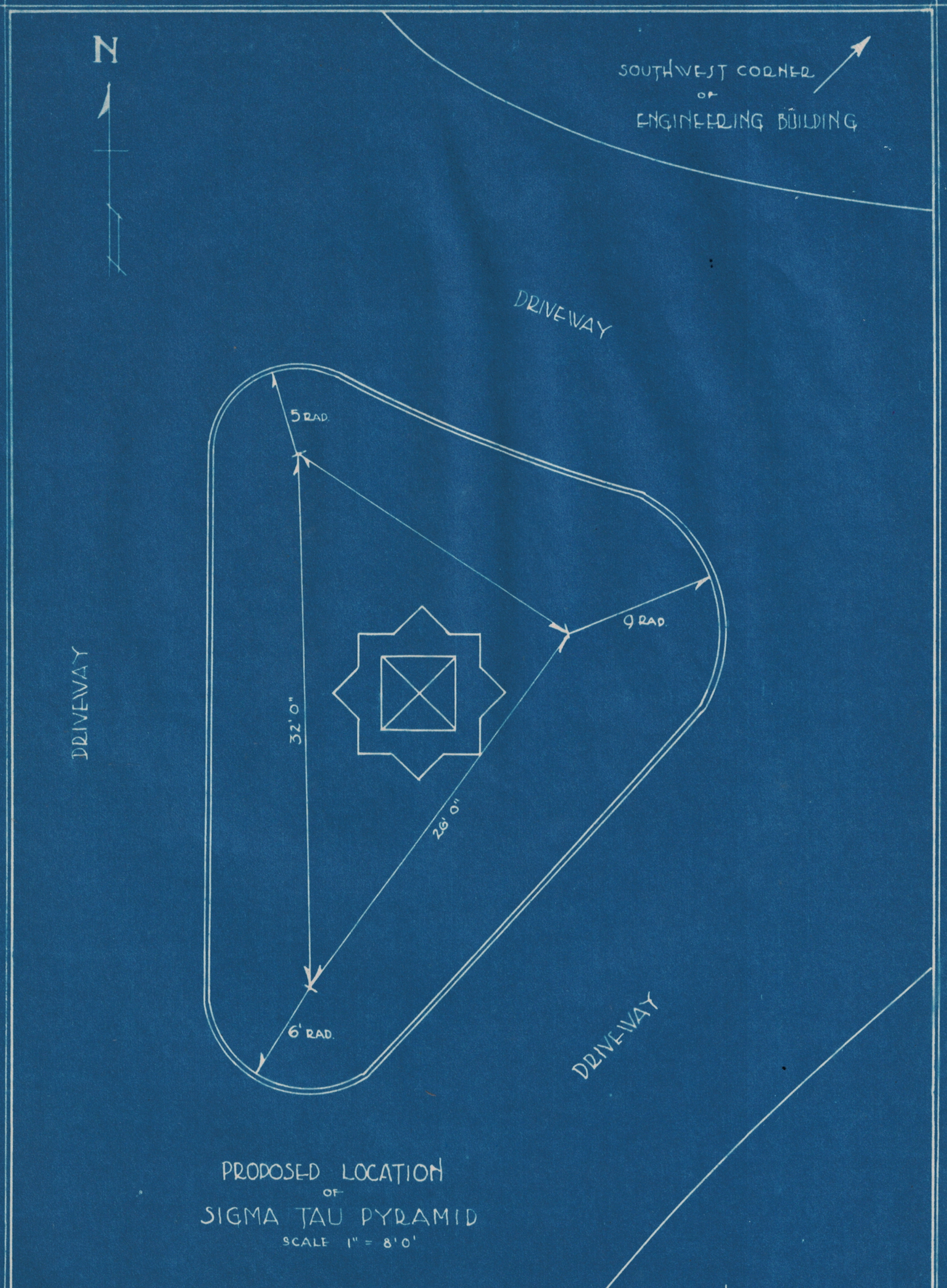
Height of Pyramid ~ 3.4'
Total height of monument ~ 4.6'

## Sigma Tau Pyramid

Pyramid ~ Natural Stone
Rail ~ Section of heavy railroad rail
Placques ~ Aluminum

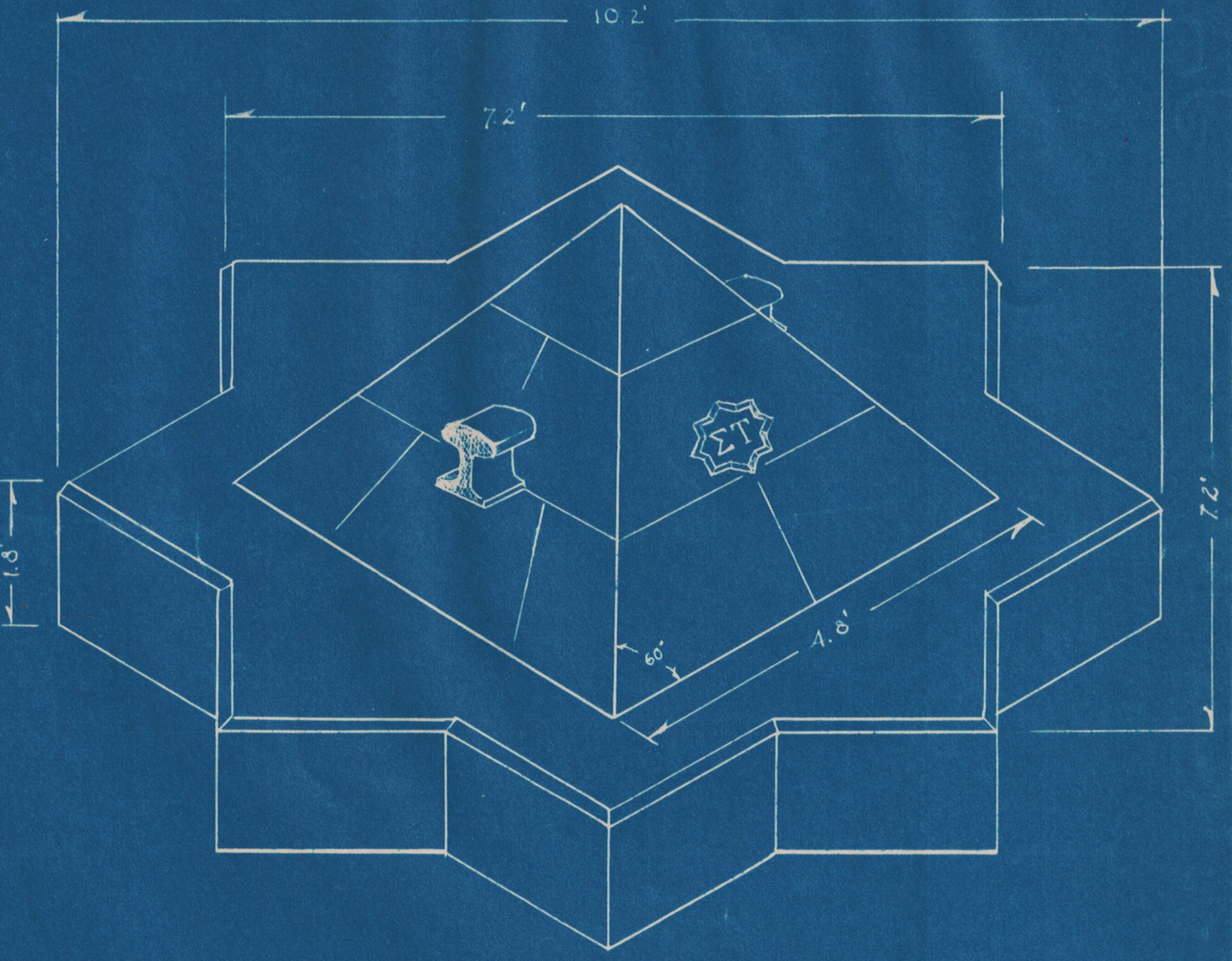
Scale: 1" = 2'

Sketch by
Hugh Maxwell
May 22, 1935



PROPOSED LOCATION
OF
SIGMA TAU PYRAMID
SCALE 1" = 8' 0'

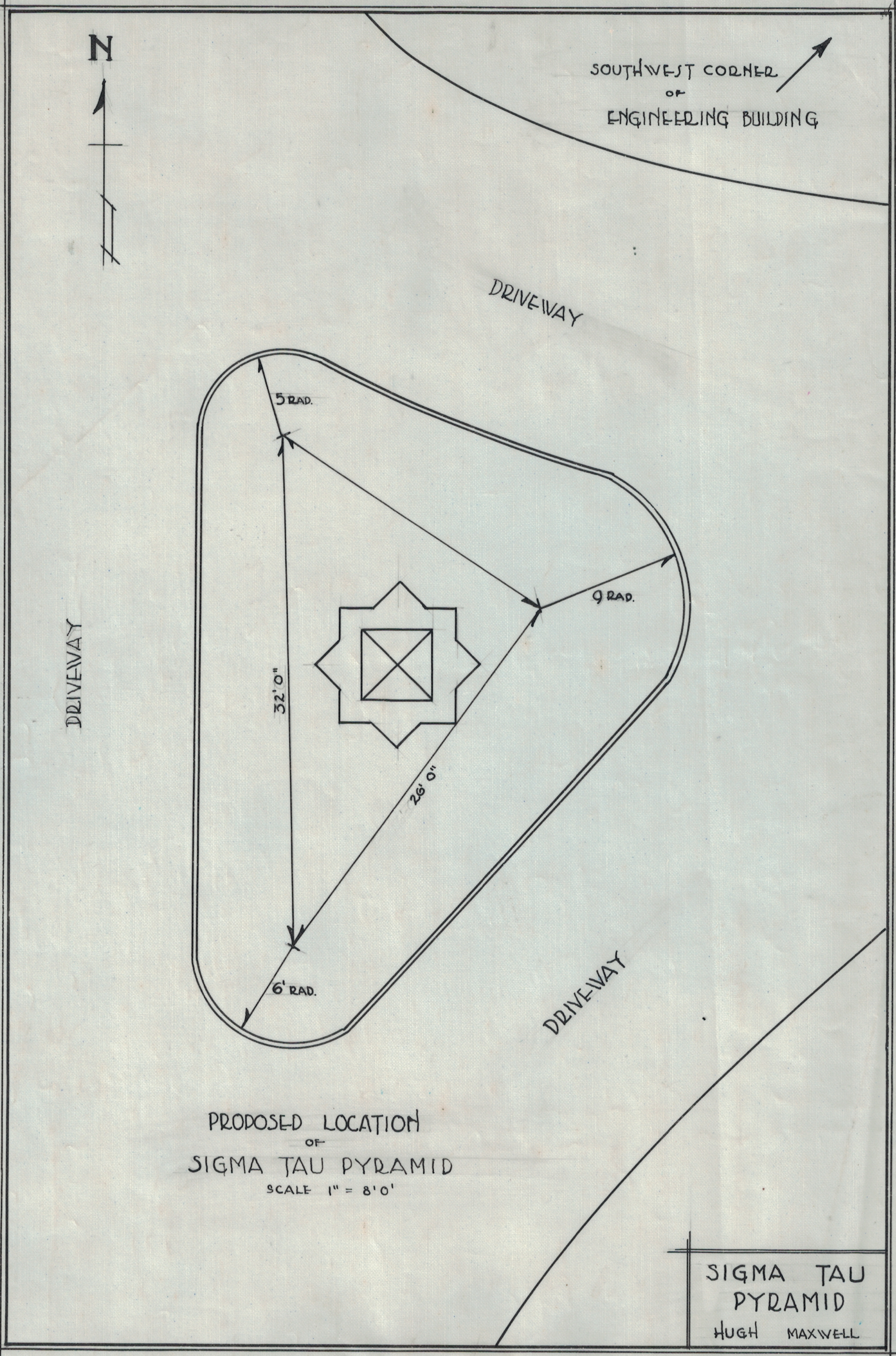
SIGMA TAU
PYRAMID
HUGH MAXWELL



HEIGHT OF PYRAMID - 3.4'
TOTAL HEIGHT OF MONUMENT - 4.6'

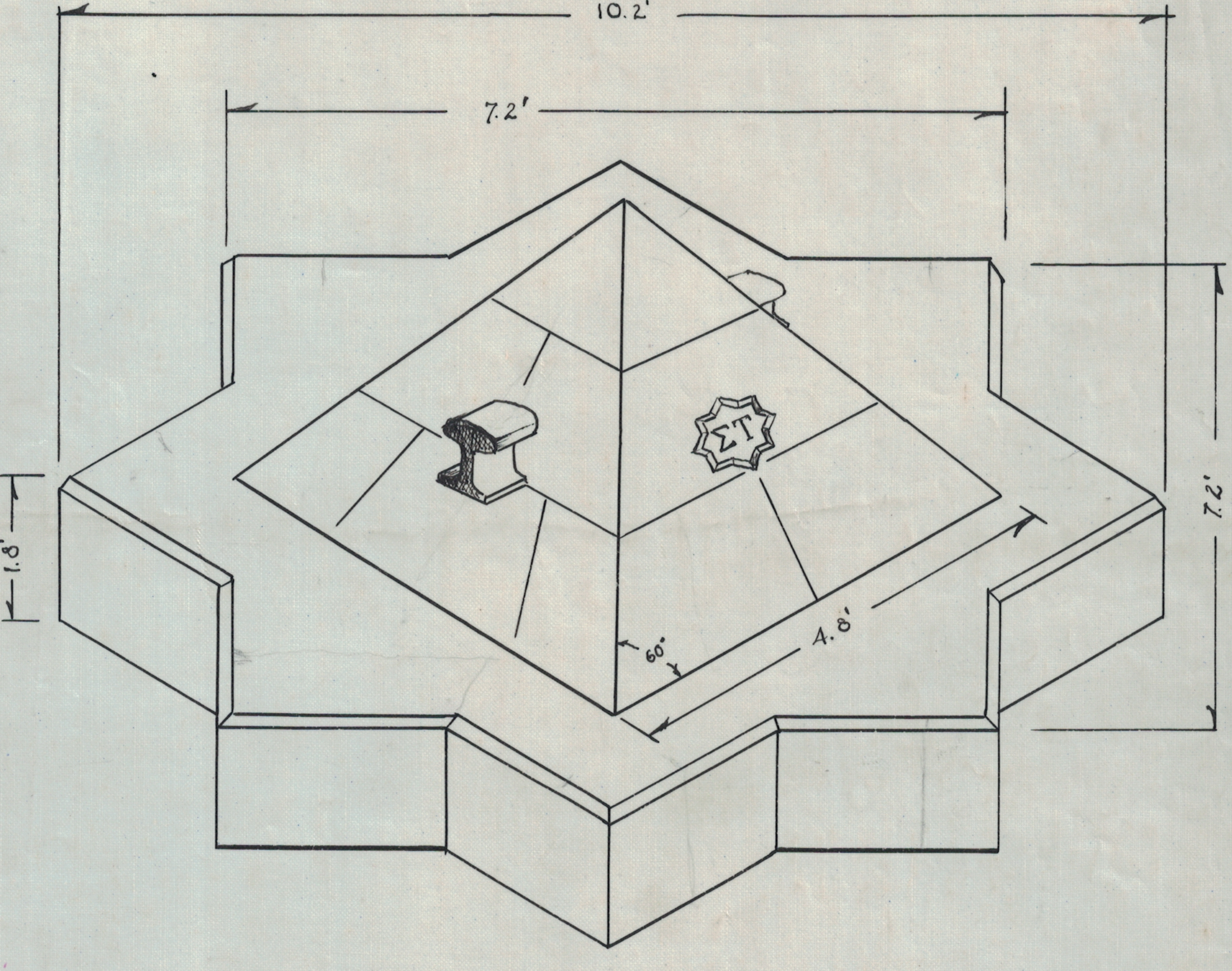
PYRAMID - NATURAL STONE
RAIL - SECTION OF HEAVY RR RAIL
PLACQUES - ALUMINUM
SCALE 1" = 2'

SIGMA TAU
PYRAMID
MAY 1935



PROPOSED LOCATION
OF
SIGMA TAU PYRAMID
SCALE 1" = 8'0'

SIGMA TAU
PYRAMID
HUGH MAXWELL



HEIGHT OF PYRAMID - 3.4'
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PYRAMID - NATURAL STONE
RAIL - SECTION OF HEAVY RR RAIL
PLACQUES - ALUMINUM
SCALE 1" = 2'

SIGMA TAU
PYRAMID
MAY 1935